				Automoti	ve: Brake Systems – 1 of 2
Tra	de and Industrial Education	School Year	Student:	7 tutomou	Grade:
Course: Automotive: Brake Systems				nool:	
	Course Code # 5712 Term:FallSpring		Number of Competencies in Comp		
	redit	rermirunspring	Number of Competencies Mas		
10					
			Percent of Competencies Mast	ered:	
	DARD 1.0: Students will demonstrate leaders				
arnin	g Expectations	Check the appro	priate Mastery or Non-Mastery column	Mastery	Non-Mastery
1.1	Exhibit positive leadership skills.				
1.2	Participate in SkillsUSA-VICA as an integral part of class	room instruction.			
1.3	Assess situations and apply problem-solving and decision-	-making skills to client relations in the comr	nunity and workplace.		
1.4	Demonstrate the ability to work cooperatively with others	in a professional setting.			
nviro	DARD 2.0: Students will demonstrate automo mmental Protection Agency (EPA) requirement	nts, for an automotive repair faci	lity.		
earnin	g Expectations	Check the appro	priate Mastery or Non-Mastery column	Mastery	Non-Mastery
2.1	Determine the safe and correct application for chemicals u	sed in brake systems.			
2.2	Use protective clothing and safety equipment.				
2.3	Use fire protection equipment.				
2.4	Follow OSHA and EPA regulations and manufacturer spec		gy.		
2.5	Respond to safety communications referring to brake syste				
2.6	Pass with 100 % accuracy a written examination relating t				
2.7	Pass with 100% accuracy a performance examination relationships and the properties of the properties o				
2.8	Maintain a portfolio record of written safety examinations instructor.	and equipment examinations for which the	student has passed an operational checkout by th	e	
	DARD 3.0: Students will apply fundamental s				
arnin	g Expectations	Check the appro	priate Mastery or Non-Mastery column	Mastery	Non-Mastery
3.1	Examine how physics concepts apply to automotive brake	system operation.			
3.2	Explore the application of fundamental laws of hydraulics	to brake hydraulic systems.			
3.3	Analyze the characteristics and properties of liquids as app	plied to automotive brake fluid.			
ΓΑΝΙ	DARD 4.0: Students will properly test, diagno	se, service, and repair brake hyd	raulic systems.		
arnin	g Expectations	Check the appro	priate Mastery or Non-Mastery column	Mastery	Non-Mastery
4.1	Diagnose brake hydraulic systems and determine necessar	y action.		1	
4.2	Inspect and repair or replace master cylinders and lines of	the hydraulic system.			

4.3

Inspect and replace switches and valving devices.

Follow specific safety guidelines and regulations for brake fluids.

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STANDARD 5.0: Students will properly test, diagnose, service, and repair drum brake systems.

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
5.1	Diagnose drum brake systems and determine necessary action.			
5.2	Remove, clean, and inspect drum brake assemblies.			
5.3	Repair, replace, and adjust drum brake components.			
5.4	Diagnose, remove, and replace pneumatic (vacuum) and hydraulic power brake	e boosters.		
5.5	Follow specific safety guidelines and regulations for working on drum brake sy	vstems.		

STANDARD 6.0: Students will properly test, diagnose, service, and repair disc brake systems.

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
6.1	Diagnose disc brake systems and determine necessary action.			
6.2	Remove, clean, and inspect disc brake system components.			
6.3	Check operation of disc brake system and components.			
6.4	Repair, replace, install, and adjust disc brake system components.			
6.5	Diagnose, remove, and replace pneumatic (vacuum) and hydraulic power brake b	poosters.		
6.6	Follow specific safety guidelines and regulations for disc brake systems.			

STANDARD 7.0: Students will properly test, diagnose, service, and repair antilock brake systems (ABS).

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
7.1	Test, inspect, and diagnose antilock brake systems (ABS) and components and determine necessary action.			
7.2	Repair, service, replace, and adjust antilock brake system (ABS) components.			
7.3	Demonstrate safe practices specific to antilock brake systems (ABS).			

STANDARD 8.0: Students will demonstrate communication skills required in the automotive service industry.

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
8.1	Communicate and comprehend oral and written information typically occurring in the automotive service workplace referring to brake systems.			
8.2	Solve brake problems and make decisions using a logical process, based on information communicated to them.			
8.3	Use teamwork skills to accomplish goals, solve problems, and manage conflict within groups.			

STANDARD 9.0: Students will demonstrate interpersonal and employability skills required in the automotive service industry.

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
9.1	Analyze relationships between work ethics, organizational skills, and personal job success.			
9.2	Demonstrate attitudes conducive to working in a team.			
9.3	Compare the correlation between a clean orderly work environment and successful and efficient job performance.			
9.4	Assess implications of diversity for communities and workplaces.			
9.5	Develop individual time management and work sequen	cing skills.		

Additional Comments			
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